APPENDIX F DUMMY POSITIONING PROCEDURES FOR DRIVER AND PASSENGER TEST DUMMY CONFORMING TO SUBPART E OF PART 572

APPENDIX F DUMMY POSITIONING PROCEDURES FOR DRIVER TEST DUMMY CONFORMING TO SUBPART E OF PART 572

NHTSA No		Test Date:		
Laboratory:		Test Technician(s):		
Impact	Angle:	Belted Dummies: _	_YesNo	
Test Sp	peed:32 to 40 kmph	0 to 48 k	mph	0 to 56 kmph
1.	Position the seat's adjustable retracted or deflated adjustr	ment position. (S8.1.3)	at the lumba	ar support is in its lowest
2.	N/A – No lumbar adjustm Position any adjustable par in the lowest or most open a N/A – No additional supp	ts of the seat that provide adjustment position. (S20		support so that they are
3.	If the seat cushion adjusts f to the full rearward position _N/A – No independent fo	ore and aft, independent . (S20.1.9.3)		back, set this adjustmen
4.	Use the seat markings dete	rmined during the compl	etion of Dat	
5.	fore-aft position, full down he The seat back angle, if adjustion for a 50th percentile (\$4.5.4.1 (b) and \$8.1.3)	stable, is set at the man	ufacturer's r	nominal design riding
	N/A – No seat back angle Manufacturer's design seat Tested seat back angle			
6.	If adjustable, set the head r adjustment of the head rest rotates, rotate it such that the N/A – No head restraint a	raint shall be used to pos ne head restraint extends	sition it full f	orward. For example, if
7.	Place any adjustable seat be position for a 50th percentileN/A – No adjustable upper Manufacturer's specified and Tested anchorage position	elt anchorages at the ve e adult male occupant (S er seat belt anchorage		acturer's nominal design
8.	Place the adjustable acceleN/A – the accelerator peo		ward positio	n.
9.	Set the steering wheel hub including any telescoping per	at the geometric center of		
10.	Place the dummy in the sea longitudinal seat cushion m upper torso rests against th	at such that the midsagitt arkings as determined in	al plane is on the contract that the contract is also the contract that the contract is also the contract that the contract is also the contract in the contract is also the contract in the contract in the contract is also the contract in	coincident with the of Data Sheet 14 and the
11. 12.	Rest the thighs on the seat Position the H-point of the of the horizontal dimension of equipment and procedures measure the pelvic angle w Adjust the dummy position (S10.4.2.1 and S10.4.2.2)	cushion. (S10.5) dummy within 0.5 inch of a point 0.25 inch below t specified in SAE J826 (A ith respect to the horizon	the vertical the H-point APR 1980). htal using the ements are	dimension and 0.5 inchedetermined by using the (S10.4.2.1) Then e pelvic angle gage. within the specifications.

	vertical inches from the point 0.25 below the determined H-point (0.5 inch max.)
	(\$10.4.2.1)
	pelvic angle (20° to 25°)
13.	Is the head level within $\pm 0.5^{\circ}$? (S10.1)
	Yes, go to 14
40.4	No, go to 13.1
	Adjust the position of the H-point. (\$10.1)
13.2	Is the head level within $\pm 0.5^{\circ}$? (S10.1)
	Yes, record the following, then go to 15No, go to 13.3
	horizontal inches from the point 0.25 below the determined H-point (0.5 inch max.)
	(\$10.4.2.1)
	vertical inches from the point 0.25 below the determined H-point (0.5 inch max.)
	(\$10.4.2.1)
12.2	pelvic angle (20° to 25°) (S10.4.2.2) Adjust the pelvic angle. (S10.1)
	Is the head level within $\pm 0.5^{\circ}$? (S10.1)
13.4	Yes, record the following, then go to 14No, go to 13.5
	horizontal inches from the point 0.25 below the determined H-point (0.5 inch max.)
	(S10.4.2.1)
	vertical inches from the point 0.25 below the determined H-point (0.5 inch max.)
	(S10.4.2.1)
	pelvic angle (20° to 25°) (S10.4.2.2)
13.5	Adjust the neck bracket of the dummy the minimum amount necessary from the non-
	adjusted "0" setting until the head is level within $\pm 0.5^{\circ}$. (S10.1)
	Record the following, then go to 14
	horizontal inches from the point 0.25 below the determined H-point (0.5 inch max.)
	(S10.4.2.1)
	vertical inches from the point 0.25 below the determined H-point (0.5 inch max.)
	(\$10.4.2.1)
	pelvic angle (20° to 25°) (S10.4.2.2)
14.	.
45	measured distance (10.6 inches) (S10.5)
15.	Can the right foot be placed on the accelerator?
	Yes, go to 15.1 and skip 15.2 No, go to 15.2
15 1	No, go to 13.2 . To the extent practicable keep the right thigh and the leg in a vertical plane (S10.5) while
10.1.	resting the foot on the undepressed accelerator pedal with the rearmost point of the heel
	on the floor pan in the plane of the pedal. (S10.6.1.1)
15.2	Initially set the foot perpendicular to the leg and then place it as far forward as possible in
	the direction of the pedal centerline with the rearmost point of the heel resting on the floor
	pan. (S10.6.1.1)
15.2.	.1 Move the adjustable pedal to its most rearward position or until the right foot is flat on
	the pedal, whichever occurs first. (S10.6.1.1)
	N/A – the accelerator pedal is not adjustable
16.	Does the vehicle have a foot rest?
	Yes, go to 16.1
40.4	_No, go to 16.2
16.1	With the left thigh and leg in a vertical plane, place the foot on the foot rest with the heel resting on the floor pan. (S10.6.1.2)
16 1	1 Is the left foot elevated above the right foot?
10.1.	Yes, go to 16.1.2 and position the foot off the foot rest
16.1	2 Check the ONLY one of the following that applies
	The foot reaches the toeboard without adjusting the foot or leg. To the extent
	practicable keep the left thigh and the leg in a vertical longitudinal plane (S10.5) and
	place the foot on the toehoard, skin 16.1.3 (S10.6.1.2)

16.1.	The foot reaches the toeboard but contacts the brake or clutch pedal and must be rotated to avoid pedal contact. To the extent practicable keep the left thigh and the leg in a vertical longitudinal plane (S10.5) and place the foot on the toeboard. The foot was rotated about the leg to avoid pedal contact, skip 16.1.3 (S10.6.1.2) The foot reaches the toeboard but contacts the brake or clutch pedal and the foot and leg must be rotated to avoid pedal contact. To the extent practicable keep the left thigh and the leg in a vertical longitudinal plane (S10.5) and place the foot on the toeboard. The foot was rotated about the leg and the leg was rotated outboard about the hip the minimum distance necessary to avoid pedal contact, skip 16.1.3 (S10.6.1.2) _N/A - the foot does not reach the toeboard, go to 16.1.3 Check the ONLY one of the following that applies _The foot did not contact the brake or clutch pedal. To the extent practicable keep the left thigh and the leg in a vertical longitudinal plane (S10.5). Set the foot perpendicular to the leg and place it as far forward as possible with the heel resting on the floor pan. (S10.6.1.2) _The foot did contact the brake or clutch pedal and the foot was rotated to avoid contact. To the extent practicable keep the left thigh and the leg in a vertical longitudinal plane (S10.5). Set the foot perpendicular to the leg and place it as far forward as possible with the heel resting on the floor pan and rotate the foot the minimum amount to avoid pedal contact. (S10.6.1.2) _The foot did contact the brake or clutch pedal and the foot was rotated about the leg and the leg was rotated outboard about the hip the minimum distance necessary to avoid pedal contact. Set the foot perpendicular to the leg and place it as far forward as possible with the heel resting on the floor pan and rotate the foot about the leg and the thigh and leg outboard about the hip the minimum distance necessary to avoid pedal contact. Set the foot perpendicular to the leg and place it as far forward
47	contact. (S10.6.1.2)
17.	Place the right upper arm adjacent to the torso with the centerline as close to a vertical plane as possible. (S10.2.1)
18.	Is the driver seat belt used for this test?
	Yes, continue
	No, go to 19
18.1	Fasten the seat belt around the dummy.
	Remove all slack from the lap belt portion. (S10.9)
18.3	Pull the upper torso webbing out of the retractor and allow it to retract; repeat this four
	times. (S10.9)
18.4	Apply a 2 to 4 pound tension load to the lap belt. (S10.9)
	pound load applied
18.5	Is the belt system equipped with a tension-relieving device?
	Yes, continue
	No, go to 19
18.6	Introduce the maximum amount of slack into the upper torso bet that is recommended by
40	the vehicle manufacturer in the vehicle owner's manual. (\$10.9).
19.	Place the left upper arm adjacent to the torso with the centerline as close to a vertical
2.5	plane as possible. (S10.2.1)
20.	Place the right hand with the palm in contact with the steering wheel at the rim's
٥,	horizontal centerline and with the thumb over the steering wheel. (\$10.3.1)
21.	Place the left hand with the palm in contact with the steering wheel at the rim's horizontal
20	centerline and with the thumb over the steering wheel. (\$10.3.1)
22.	Tape the thumb of each hand to the steering wheel by using masking tape with a width of
	0.25 inch. The length of the tape shall only be enough to go around the thumb and
	steering wheel one time.
I certify	that I have read and performed each instruction.

APPENDIX F DUMMY POSITIONING PROCEDURES FOR PASSENGER TEST DUMMY CONFORMING TO SUBPART E OF PART 572

NHTSA No.		Test Date:		
Laboratory:		Test Technician(s):		
Impact	Angle:	Belted Dummies:YesNo	0	
Test Sp	peed:32 to 40 kmph	0 to 48 kmph	0 to 56 kmph	
1.		which the adjustments have alreated pendent adjustments that can be		
2.				
3.	Position any adjustable part	s of the seat that provide additionad in the seat that provide additional (S20.1.8.2)	al support so that they are	
4.	If the seat cushion adjusts for to the full rearward position.	ore and aft, independent of the sea	at back, set this adjustment	
5.	Use the seat markings deter	rmined during the completion of D eight position and the seat cushion		
6.	position for a 50th percentile (S4.5.4.1 (b) and S8.1.3) N/A – No seat back angle Manufacturer's design seat			
7.	adjustment of the head resti	estraint at the full up and full forwaraint shall be used to position it full be head restraint extends as far for	I forward. For example, if it	
8.	Place any adjustable seat b position for a 50th percentileN/A – No adjustable upper Manufacturer's specified an Tested anchorage position	elt anchorages at the vehicle man e adult male occupant (S8.1.3) er seat belt anchorage	ufacturer's nominal design	
9.	Place the dummy in the sea longitudinal seat cushion ma	t such that the midsagittal plane is arkings as determined in item 2.19 e seat back. (S10.4.1.1 & S10.4.1	of Data Sheet 14 and the	
10. 11.	Rest the thighs on the seat of Position the H-point of the dath the horizontal dimension of equipment and procedures a measure the pelvic angle with Adjust the dummy position to (\$10.4.2.1 and \$10.4.2.2)		al dimension and 0.5 inch of ht determined by using the). (S10.4.2.1) Then the pelvic angle gage. e within the specifications.	

	vertical inches from the point 0.25 below the determined H-point (0.5 inch max.)
	(\$10.4.2.1)
	pelvic angle (20° to 25°)
12.	Is the head level within $\pm 0.5^{\circ}$? (S10.1)
	Yes, go to 13
	No, go to 12.1
12.1	Adjust the position of the H-point. (S10.1 and S10.4.2.1)
	Is the head level within $\pm 0.5^{\circ}$? (S10.1)
'	Yes, record the following, then go to 13. No, go to 12.3
	horizontal inches from the point 0.25 below the determined H-point (0.5 inch max.)
	(\$10.4.2.1)
	vertical inches from the point 0.25 below the determined H-point (0.5 inch max.)
	(\$10.4.2.1)
40.0	pelvic angle (20° to 25°) (S10.4.2.2)
	Adjust the pelvic angle. (S10.1)
12.4	Is the head level within $\pm 0.5^{\circ}$? (S10.1)
	Yes, record the following, then go to 13No, go to 12.5
	horizontal inches from the point 0.25 below the determined H-point (0.5 inch max.)
	(S10.4.2.1)
	vertical inches from the point 0.25 below the determined H-point (0.5 inch max.)
	(S10.4.2.1)
	pelvic angle (20° to 25°) (S10.4.2.2)
12.5	Adjust the neck bracket of the dummy the minimum amount necessary from the non-
	adjusted "0" setting until the head is level within $\pm 0.5^{\circ}$. (S10.1)
	Record the following, then go to 13
	horizontal inches from the point 0.25 below the determined H-point (0.5 inch max.)
	(\$10.4.2.1)
	vertical inches from the point 0.25 below the determined H-point (0.5 inch max.)
	(S10.4.2.1)
	pelvic angle (20° to 25°) (S10.4.2.2)
13.	Set the distance between the outboard knee clevis flange surfaces at 10.6 inches.
	measured distance (10.6 inches) (S10.5)
14.	Check the only one of the following that applies:
—	To the extent practicable keep the left thigh and leg in a vertical plane and the right
	thigh and leg in a vertical plane, place the feet on the toeboard with the heels resting on
	the floor pan as close as possible to the intersection of the floor pan and toeboard.
	The feet cannot be placed flat on the toeboard. To the extent practicable keep the left
	thigh and leg in a vertical plane and the right thigh and leg in a vertical plane, set the feet
	perpendicular to the legs and place them as far forward as possible with the heels resting
	on the floor pan.
	The vehicle has a wheelhouse projection. To the extent practicable keep the left thigh
	and leg in a vertical plane and the right thigh and leg in a vertical plane, set the feet
	perpendicular to the legs and place them as far forward as possible with the heels resting
	on the floor pan. Do not set the feet on the wheelhouse projection.
	The vehicle has a wheelhouse projection and the feet cannot be placed on the
	toeboard. To the extent practicable keep the left thigh and leg in a vertical plane and the
	right thigh and leg in a vertical plane, set the feet perpendicular to the legs and place
	them as far forward as possible with the heel resting on the floor pan Do not set the
45	feet on the wheelhouse projection.
₁₅ .	Place the left upper arm in contact with the seat back and side of the torso. (S10.2.2)
16.	Is the passenger seat belt used for this test?
	Yes, continue
40.4	No, go to 17
	Fasten the seat belt around the dummy.
16.2	Remove all slack from the lap belt portion. (S10.9)

TP208-12 F6

Pull the upper torso webbing out of the retractor and allow it to retract; repeat this four times. (S10.9)	
Apply a 2 to 4 pound tension load to the lap belt. (S10.9) pound load applied	
Is the belt system equipped with a tension relieving device? Yes, continue No, go to 17	
Introduce the maximum amount of slack into the upper torso bet that is recommended by the vehicle manufacturer in the vehicle owner's manual. (S10.9). Go to 17.	
Place the right upper arm in contact with the seat back and side of the torso. (S10.2.2) Place the left hand palm in contact with the outside of the left thigh and the little finger in contact with the seat cushion. (S10.3.2)	
Place the right hand palm in contact with the outside of the right thigh and the little finger in contact with the seat cushion. (S10.3.2)	
that I have read and performed each instruction. Date	